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FOR AGE AND RANCH

62.13

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Devoted to the Interest at the men

con P - Del-

AGGELER & MUSSER SEED CO.

520 South Engling 5t her Los Angeles Calif.

MR. CATTLEMAN, READ THIS

The society a cancer in the Southwest who has not so either tern steatly become menced and endured much so from lack of feed following a season of light rainfall. These periodical losses we believe can be reduced to a

oiniman; by co-operation on the part of cattlemen working ther to improve the range by a systematic elimination the undesirable vegetation, encouraging that which is ed and introducing new vegetation by planting seeds of esses that are know to theire under similar conditions harts of the country and from other parts of the

seek of years Alleler & Musser seek socition and conspiction, liven to the class of regulates produced anywhere years to this a characteristics.

stander effort to be of a substantial benefit stathwest is to assist the stockmen to find accuracy plants that will endure each and every tax steel the vast tax are of the desert and at the larger because with grasses that will

consist and it is realization of the enormous es that passed recorded or, if noticed, little

ste exists in the barren condition and since since in the barren conditions.

concluded there d to these conditions so the to so batter places to so of cittle, goats

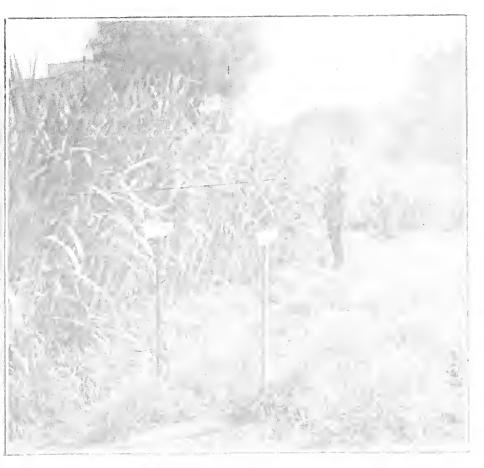
that the now grow-

Talle, Write C. Ask for The Genera d reference to

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Japanese when established. Sec page 28.



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MR. DAIRYMAN AND STOCKMAN, READ, THIS

u can obtain want the crops that vill all a condacts. In a greatest tompage for consile. You also want that will give you best conditioned quantity of the longest season. You also want the crops best to your soil and climate conditions.

We have given much attention to your rections we are sure you will find in this bulletin sometime to your purpose. We also invite you to some stration referred to on the preceding page.

POULTRYMEN

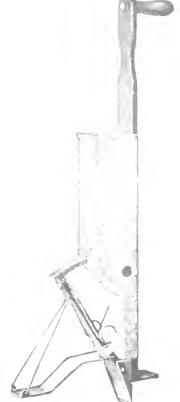
To the small stock breader and poultrymac, and will mid in this bulletin just as much of interest to the state of the large breeder. Read it carefully

HOW TO PLANT SMALL GRASS SEED

GLIFFING A STAND BY THE CORRUGATED SYSTEM

pristing the interest of the i

Mr. Stockman:



Segment Planter. A good thing to plant grass seeds in rough

THE SMALL RANGE

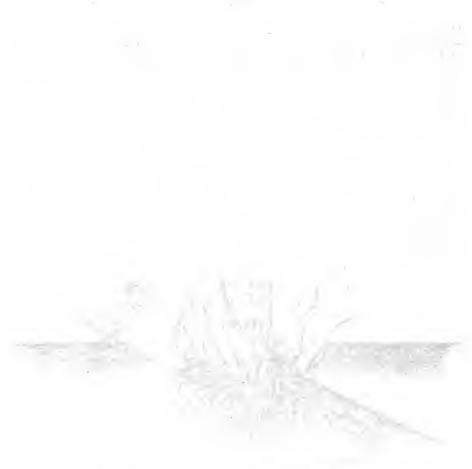
t in dramwould hold

The twist we say got to the first with the illustration of the like the illustration of the control of the ground of will be safe from insects and street take root and then when a rabbit or pest would eat the foliage, town being beneath the surred will quickly grow again.

This procaution may seem implication and unwarranted, but on you expect valuable grasses to grow with less attention than would be given other crops?



NAPIER



the control of the co

commend planting two

That 6

APIER (Continued)

For frequent cutting we advise planting twere inches part each way; thus one plant to each square foot will quickly fill the space solidy with succedent green acid that have be pastured or cot frequently for hay or green lead to. Dickens, rabbits of goats. The grass is also same to possess drouth resistant qualities to a marked degree but it woll there has where soil coise ture is not lacking.

In a discussion of his grave, as more in a state of marked to Tropical Vides to another easys:

It occurs above, with receipts and in markly depressions, but also not a sile of marked approximation of the course of the constant of the course of the constant of the course of t

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GUINEA GRASS

RHODES GRASS

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Was discovered in South Africa by Cecil Rhodes in 1893 and developed by him on his farm from a few handfuls of seed he found wild. It was taken to New Zealand and Australia and is responsible for the development of the sheep industry there. It was named in honor of Mr. Rhodes. About 12 years ago it was brought to Florida where it strove as the East Crost Gross, and where it made on we conful growth.

records on we conful growth.

For first fand information we are indebted to Mr. O. J. Renthew, who with Mr. W. D. Butty, have \$20 acres of Rholes Gales growing at Night Cul. The soil is heavy and sent on this and benders on the Salton Sea. They are cutting it six times a feature with Rhodes Grass, Mr. Renford warms of the salts of the plant which times well in warm climate.

elimate (f is pererrial b), temperature above 18 degrees and this s at 125 degrees. It stands drouth remarkably and will shirter much to gleet and practuring. It does not scald in hot weather from excession moisture like alfalfa. it is highest in protein of an ege ss tried. Stock like it and will out show boat.

Riches Grass will crive orthogody, and other weeds because of its decree from the It is asi. I directed by being glowed orce and let stand for sixty or nivety days. It adds by a present the soil.

The last time to idant Rhodes Grass from March 1st to Samember ist

The soil is st be well prepared by thorough pulverizing then co-rucated (see page 4). Broadcast 14 pounds of seed per acre, with one the felt twice one forth and south and east are west sowing 7 portrals each way. Keep the soil continua y moistered until the gross is established It grows so -polly that the first outline may be had the sixth week. The not pasture until after the second cutting.

Price per 36, 81.00 postpaid. Write for quantity price.

Another car of experience with Rhodes Grass has added much to its popularity. It might be claiming too much to say that for a permanent pasture field it excels alfalfa, but it is no exaggeration to say it has a wider usefulness, because it will thrive on soil too alkaline for a'falfa. It will endure more drouth, more pasturing, more neglect, and will support as many head of stock per acre.
The following extract is from the U.S. Department of

The following extract is from the U.S. Department of Agriculture Bulletin 1048;
Rhodes Grass was first cultivated because of its pasture value. It lears trampling well, recovers quickly after it is eaten down, and is relished by all kinds of live stock. In pastures favorably located, Rhodes Grass will support about two steers to the acre for to 10 months and double that number during the more favorable parts of the year. The quality of hay made from Rhodes Grass is superior to that of most other grasses in that it contains a larger proportion of leaves, while the stems are slender, tender, and sweet, so that the hay is eaten with very little waste. It retains its color well in drying, therefore making an attractive hale for market. hale for market.

Mr. McArthur of this city planted twenty acres near Holtville in Imperial Valley, on soil that was white with alkali. He is very enthusiastic concerning it. He says it is the most valuable grass that has ever come to Southern California. There is no longer any excuse for waste places; every acre of alkali soil may now be converted into valuable grazing land. grazing land.

The following was copied from the Orchard & Farm, contributed by Dr. P. B. Kennedy (Grass and Forage Plant Investigation). University of California:

Investigation). University of California:

"Rhodes Grass hay is sweet and tender, and well liked by all classes of stock. It has an attractive appearance and lends itself admirably to baling for market. One to two tons per acre would be considered a poor yield, and might be expected on poor soils with insufficient irrigation, while on good soils with ample irrigation and a long season, eight tons per acre may be reasonably expected. The grass grows very rapidly during the warm summer, thirty days being sufficient to produce a cutting, but as the season advances and the mean temperature becames lower, the growth becomes less rapid. comes less rapid,

10

PASTURE PLANT

"Penhins the best way to utilize Rhodes Grass is to hake o cuttings of hay and then pasture for the remainde or escasor. Continuous grazing is not to be recommended though the plant withstards pasturing whi. We have it as yet determined the carrying capacity of he lodes Grass relational conditions but the reports for after state e really remarkable. As ery conservative a classic would three lows not access or eight months.

'Since California most from now or produce more form der in casive cultivation we haliche this access one of grass as the contract of the contract



3.50 lb lpaid

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the bug to M Winter Cross

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Air Themso sais in this ite is a fine of the plant of the

Regarding the Harding Grass in he s Stelements wish I could get more. Having a few ands in 19 through them in 6 times, beginning Oct. 12, the last planting to March 25th. I am well pleased with the results, attrocast does not grow very high in our granite soil, it is not officers I know of that will pay here.

A. LAFORGE.

A. LAFORGE.
Newcastic
California



Printing the record season without the printing dead better the printing dead better

PARA GRASS

ALFILARIA

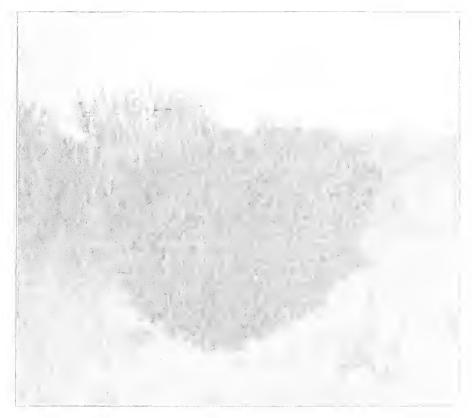
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South Texas.

AUSTRALIAN SALTBUSH

(Atriplex semibaccara)



Australian Saithash Growing by the Hondside

One plant growing of a roadside on clay soil north, no no moisture other than the season's rainfall

Cardinal points: For range near the coast or inverior lower lands where fogs are of trequent occurrence—any kind a soil—endures much alkali—thrives with a minimum of mointure—very succulent during winter, spring and early summer, when it is relished by all stock—becomes parched by heat in late summer, then it is less palatable to stock, but they will thrive if forced by hunger to eat it—it seeds freely. Requires no preparation of soil for seeding. Cannot cut and dry as hay—has one tap root—easily cradicated

Per Ib. \$1.60 postpaid. Write for quantity price.

The best way to get a stand of Saltbush is to sow broadcast the seed during the months of January and Februar. Five pounds of seed will sow one acre broadcast.

Saltbush has made a new record which establishes a value. Heretofore, this has not been appreciated, although for years we have tried to make plain that its principal use was for sheep and goat pasture.

use was for sheep and goat pasture.

Mr. Maurer, who has large interests in the San Clemento Islands, and maintains large herds of sheep and goats, states that were it not for the several hundred pounds of Saltbush he purchased from us several years ago he would, undoubtedly, have lost his herd. If you have any waste land, sow Saltbush; it may be depended upon when all else fails.

Had the owners of Guadaloupe wisely sown Saltbush seed over their island several years ago they would not have found it necessary to ship their herds to the mainland, entailing much expense and inevitable loss of animals.

Fire may devastate the range and destroy all dry forage in its path, but the Saltbush being perpetually green is absolutely uninjured by fire.

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COCKSFOOT

the tyle glomerata) also called Orchard Grass

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RUSSIAN BROME GRASS

(Bromus incrmis)

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Per Ib. \$1.00 postpaid. Write for quantity prime

SMILO GRASS

sistant hopei diough ensistant hind gross in a discount from the aid is a district in and soil. But most a good foot system a foreth

Plants 75d per 166 postpaid; 84.00 per 1000 fo.b. here.



Two lears (2c a brish fire got started on our hills. Be-ing the rainy season started we sowed several pounds of Smilo seed broadcast over the burnt stumps. As it did not hain for several weeks we feared the birds would get all the seed. Consequently, on this hill land, that for ages has pro-duced nothing but laush and wild animals, we pastured sev-eral head of horses all summer. The last week I rented it for a nice sum to Burn Erwin, lessee of the 9000-acre old spreckels ranch, who has 35 head of his work horses and mules in my pasture. mules in my pasture.

PASPALUM DILATATUM



The state of the s

Per In 75e postpaid. Write for garafit nei e

RED TOP

Agrostis volgaris)

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Price per to the pestpaid Her too ths, 35e f.ob, here.

PERENNIAL RYE GRASS

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ITALIAN RYE GRASS

Alolium Iralicumo

It is a second of the street of the second o postpaid.

BARLEY AS A WINTER PASTURE

Several other plants furnish good winter pasture, but none to so valuable as Barley. It affords grazing earlier, more abundantly. It recovers more tapidly after being grazed down. It is more relished by stock and more wholesome. It stands up so that stock can eat it with less dirt or other objectionable matter, and it is never affected by rust, sown in September it affords good grazing until May, but if the stock are taken off in March, a good crop of grain may be harvested.

Por this purpose sow 100 pounds per acre and irrigate if

needed.
Barley sown in an alfalfa field during October will make good pasture during the winter when alfalfa is dormant, or it may be grown for hay without injury to the alfalfa.

SWEET CLOVER

MELILOTUS ALBA

For income on oncerning Mendotus Alba sweet and write United States Department of Agriculture seeds. D. C., for Farmers' Bulletins See, 777 and 870.

Two rears all we stated in this careful, it is Manager and Clear very and additional action of albanian measures of Clear very and all the rearrange of albanian measures. The Montane 12000 Clear very application of satisfactory case of them really a separate and satisfactory case of them really a separate.

Melilotus Alba note the particular and the form of the first of the firs

21 Reasons for Planting Melilotus Alba

- It is not a weed. Like alfalfa it is rich in protein. Will not bloaf cattle or sheep. Equal to altalfa for pasture.
- 4.
- Is a great milk producer. Furnishes early spring pasture. G,
- Contains more protein than red clover. Fits well in the crop rotation. Is a great soil enriching crop.
- <u>.</u> 9,
- Better than any of the 10. common clovers as a green manure crop.
- 11.
- 12.
- 13.
- Ts a valuable plant for honey bees.
 Prepares the soil for alfalfa.
 Roots are soft and give no trouble in plowing.
 Roots being tender become inoculated more readily thou 14. alfalfa.
- Vever damages onlüvated crops. 15.
- Its voots decay rapidly, adding much nitrogen and humas to the soil.

 Grows and will produce a crop in all parts of the 16.
- 17. United States.
- Seeds freely in both humaid and dry Sections. Sweet clover prevents exosion. 18.
- 19,
- grow under conditions where clover and alfalfa-20. Will fail:

 - (a) On land too low, too wet, or too alkaline for alfalfa;
 (b) On land too hard and compact for alfalfa;
 (c) On soil too poor for alfalfa, especially where there is lime.
- 21. It is immune to nematodes.

Now read again these twenty-one reasons for planting Mehlotus Alba and see wherein it suits your particular case.

Sweet Clover and Alfalfa Hay Compared

The Massachusetts State Station Report for 1894 gives the following analyses of sweet clover at different stages of growth:

Digestion coefficient. Nitrogen Pro- Crude free ex-Dry matter. Oat Straw 64.25



Moliforna Albi

SWEET CLOVER

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By P. G. Harlen, the consequence of Lyr usion Department intermitating this is a long any of New Jersey.

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the answer to the many inquiries received as a when where and how to sow sweet clover, or melilotus, the following will prove successful in this region:

When to Sow .- The best results are obtained by sowing in early spring as soon as the ground is dry Joid warm enough to put in condition for a good shallow seed-bedthis latitude April 1 to 17, before spring rains. In the South where the rainfall is copious in winter, fall plowing will be better.

Where to Sow .- Any place on the farm, especially on the poor, worn-out spots, lence rows, citches

How to Sow.—Preferant, in a due shallor seed-bed on a tirm sub-soil. It sown before a rain it needs no harrowing Always cover very lightly, as deep seeding is anseccessful Corn stubble, or any ground cropped the preceding year. In discing and harrowing, putting the top two inches a in fine condition, is suitable for sowing. shallow. Without nurs crop preferred.

General Remarks .- With a favorable season and zond stand it can be pastured without injury to the plant in about to weeks. The first season, pasture or cut comport hay: "I second season pasture, buy or seed. It is most valuable a continuous pasture, when in will reseed its." without thought or car of the grower

It will never bload stock, booses, catris, soc It will never bload stock, becses, catrle, she poor bog-turned out at any time, even in take or dew. A good scarp will pasture 20 herd or ever so the new. Blue the new The bitter tasts of sweet charter is crused by the meson Se : 12 to 15 pounds per

A Few Don'ts

Jun't plow deep. Den't sow deep. Don't cut low in month and asr a inches high bun't have subsoil hos-

Melilotus Alba for the Range

of this Sweet Clover and just to get a start sow at the rate of one pound per acre all over your range. On any kind of soil. If not pastured too closely you will soon have a valuable range for your stock

The same advice applies also to Smilo.

Sow also Burr Clover on heavy soil and Alribana on any kind of soil.

BURR CLOVER

Like Alfilaria is native to the southwest and thrives best on adobe soil, enduring considerable alkali. It starts growing as soon as the fall rains set in and with a minimum of rainfall such as we have in "dry years" it grows luxuriantly, bearing enormously of seed pods. When mature the whole plant drys, forming a mat of good cured forage relished by all stock. **Per lb. 40c postpaid.**



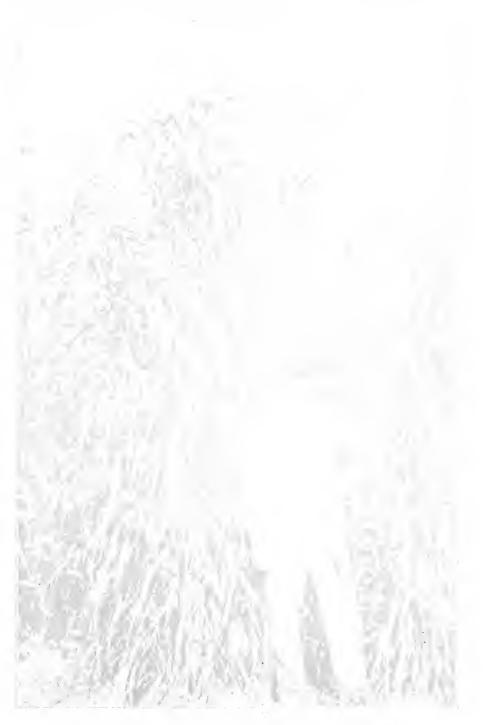
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BEST CROPS FOR THE SILO





RUBASS SOULARUM

The Words of the technique of the

other sorghum. Seed planted "good lord the plants average" six feet high on June 18th on Volust 18th were 12 feet high and ready for the silo. Plants our July 18th produced a good second crop. Its growth was not checked by the cold weather during April as were other sorghums growing beside it. Cultivate as a sorthum like of act is suffice a for one acce. Price of seed, 60c per fit, postpaid.

Mr. M. C. Connell planted seak in June, Victorial for made the first cutting like seak in June, Victorial for made the first cutting like seak in June, victorial for the nutritual of success to a silone and sorth for the first cutting like and sorth for the first cutting like and the first cutting of success to a silone first the made of the first cutting for the seal of the first cutting for the first cutting like and the first cutting for the first cutting



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One ton of hay requires 500 three rest or storage space, while one ton of silings requires only 50 (a) to leet.

The best dairymen feed above forty pounds of ensilinge with two pounds each of brain and oil meal daily in each tow in order to secure the maximum milk production

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SUDAN

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THE RESERVE

JAPANESE SUGAR CANE

t contract to plant-

Price of Joints Per Dozen, \$1.00 Postpald (on Joints, \$6.00 Postpaid



BRANCHING CORN

The largest corn stalk you ever saw. Two ears on main stem and five branches with one ear on each branch.

AGGELER & MUSSER SEED CO.

FORAGE FOR RANCE A RANCH